How to Apply

Upper division undergraduate students and early graduate students in all scientific disciplines are encouraged to apply. Students must be enrolled in an accredited university and in good academic standing. U.S. citizenship preferred, however exceptions will be considered based on strength of application.

To apply:

- Submit a current resume
- Letter of intent describing research interests, strengths, goals, and interest in the program.

Send all application materials to:

Information Science & Technology Institute Los Alamos National Laboratory Mail Stop T011 Los Alamos, NM 87545

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Email: apply-parallelcomputing@lanl.gov

Application Deadline February 5, 2016Notification by early March 2016

Compensation

Los Alamos National Laboratory offers very competitive compensation:

- 10-week salary of \$7-10K (based on education and experience)
- Reimbursement for approved travel costs



High in the mountains of Northern New Mexico, the parallel finger mesas of Los Alamos provide a fitting location for Parallel Computing Summer Research.

Los Alamos, New Mexico provides the perfect backdrop for a summer of hiking, biking, rock climbing, running, and immersing yourself in cutting-edge HPC.

Sponsor

The Parallel Computing Summer Research Internship is funded by the Information Science and Technology Institute (ISTI) at Los Alamos National Laboratory. ISTI facilitates scientific collaboration and scholarship.

Visit isti.lanl.gov to learn about other summer programs in data science, co-design, clusters, and computational physics.





2016 Parallel Computing Summer Research Internship



Solving complex scientific and national problems on next-generation supercomputers.



http://parallelcomputing.lanl.gov



The Parallel Computing Summer Research Internship is an intense 10-week program aimed at providing students with a solid foundation in modern high performance computing (HPC) topics integrated with research on real problems encountered in large-scale scientific codes.

Description

During the 10-week program, students will receive training and lectures on modern topics in HPC and software development, including

- parallel programming,
- programming models,
- algorithms,
- hardware architecture and its impact on code design choices,
- high-quality software development in collaborative environments,
- visualization and workflow.

Students will collaborate in teams to identify and investigate different computational problems within the scientific focus area, and implement solutions guided by mentors with scientific and computational expertise.

Students will work on cutting-edge HPC hardware and gain hands-on experience.

Students

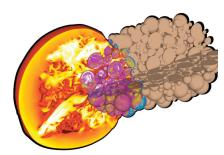
This highly-selective program is designed for upper division undergraduates to early graduate students from all science fields. As a general guideline, students should have basic experience with a scientific computing language, such as C, C++, Fortran and with the LINUX operating system.

Duration & Location

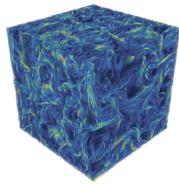
The program will last ten weeks, June 6 through August 12, 2016, and will be held at Los Alamos National Laboratory.

Students must be available to live and work in Los Alamos, New Mexico.

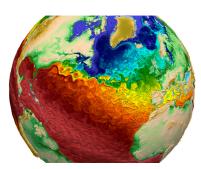
Solving Next-Generation Science @ Extreme Scales



How would the detonation of a nuclear energy source affect an incoming asteroid?



How do turbulent plasmas behave in star formation?



How are global water-surface temperatures changing?

